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MAC	

IN: 10613

TOA: 14/1500Z MAR 65 PUF

25X1A

5 E C R E I 141304Z

PRIORITY INFO CITE

25X1A

IDEALIST MAINT-LOGS

GUBL: AIRFHAME INTEGRITY INSP FINAL HEPORT ART 384

THE FOLLOWING IS FINAL REPORT OF ALL DISCREPANCIES FOUND BY LAU TEAM. IT IS FELT THAT NONE OF THE DISCREPANCIES (WITH THE EXCEPTION OF PARA 3 BELOW) WERE OF MAJOR CONSEQUENCE.

A L AND R WING LOWER SURFACE FROM ROOT RIS DUTBOARD APPROX 24 INCHES - SCRATCHES VARYING FROM I/S INCH TO 12 INCHES LONG AND UP TO APPROX .010 DEEP IN RANDOM DIRECTIONS WERE FOUND ON BOTH WINGS. APPROX 25 SCRATCHES ON LEFT WING AND 23 ON RIGHT WING. THESE WERE WORKED WITH 400 PAPER AND CLEANED UP ACCEPTABLY.

APPROX .815 DEEP, CAUSED BY RUBBING OF UP-SET RIVET HEADS INSIDE.

THE LEADING EDGE FILLET, WERE FOUND ON EACH WING. THE CHAFE

MARKS WERE WORKED THE MINIMUM REQUIRED TO INSURE AGAINST SHARP GROOVES

THAT WOULD CAUSE STRESS CONCENTRATIONS. THE UP-SET RIVET HEADS IN THE

LEADING EDGE FILLET WERE WORKED DOWN SLIGHTLY TO PREVENT FUTURE

CHAFING.

C. L AND R WING LOWER SURFACE AT W.S. 50 AND W.S. 190 ACCESS PLATES - CRACKED PAINT AT THE RIVET HEADS LOCATED AT THE INBOARD

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SATISTACTORY.

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IN: 10613 CITE:	
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AND OUTBOARD ENDS OF EACH OF THE FOUR ACCESS PLATE CUT-OUTS INDICATES
"RIVET WORKING". DYE CHECK AND X-RAY OF THE FOUR AREAS
REVEALS NO ABNORMAL CONDITIONS. RIVETS ARE NOT TIPPED OR CUPPED.

- D. L AND R WING LOWER SURFACE AT 15 PER CENT CORD, (SPANWISE SPLICE), FROM THE SLIPPER TANK DUTBOARD APPROX 3 FEET CRACKED PAINT AND SEEPING FUEL AT RIVET HEADS. RIVETS ARE TIGHT AND SHOW NO XPIDENCE OF TIPPING OR CUPPING.
- E. FUSELAGE SKIN TO MAIN FRAME RIVETS EVIDENCE OF RIVETS WORKING PARTICULARLY IN THE AREA BELOW THE WING. RIVETS ARE NOT TIPPED.

 ONLY VERY SLIGHT CUPPING IS EXHIBITED BY A FEW RIVETS.
- F. FUSELAGE MAIN FRAME SEGMENTS BETWEEN LOWER LONGERONS AND THE LONGERONS MINOR NICKS, SCRATCHES AND GOUGES WERE FOUND AND CLEANED UP.
- G. AFT ENGINE MOUNT SUPPORT RING THE AFT MOUNT SUPPORT RING BEGMENT BETWEEN THE UPPER LONGERONS EXHIBITED REDUCED PROPERTIES DUE TO AN OVERTEMP CONDITION. THE REDUCTION IN PROPERTIES WAS GREATEST AT THE ENGINE MOUNT ATTACH POINT AND DIMINISHED SOMEWHAT NEAR THE UPPER LONGERONS. THE RING SEGMENT WILL BE REPLACED AND THE DAMAGED SEGMENT RETURNED TO THE FACTORY FOR FURTHER ANALYSIS.
- H. OPPER FWD CORNER OF THE RIGHT HAND SPEED BRAKE WELL THE STRUCTURE ON THIS CORNER OF THE SPEED BRAKE WELL EXHIBITS REDUCED PROPERTIES DUE TO AN OVERTEMP CONDITION. BARCOL AND EDDY CURRENT TESTS REVEAL PROPERTIES NEAR THE MINIMUM FOR THE MATERIAL. THIS STRUCTURE IS NOT CRITICALLY STRESSED AND IS CONSIDERED
- END OF Approved For Release 2002/06/18: CIA-RDP74B00447R000100010071-3

Approved For Release 2002/06/18 : CIA-RDP74B00441R000100010071-3	•
SECRET	
IN: 12514	
TOR: 14/1655Z MAR 56 PJF	
SECRET 132258Z 25X1A IMMEDIATE INFO CITE	25X1
25X1A IDEALIST MAINT-LOGY	
SUBJ: ARTICLE 384 INSPECTION	
25X1A (NOT RECEIVED)	
25X1A _{ATTN} :	
BASED ON INFO IN REF MESSAGE IT IS DEEMED ADVISEABLE TO	
REPLACE UPPER AFT ENGINE SUPPORT RING SEGMENT. DIVE BREAK AREA	
OFWAA IS NOT CONSIDERED CRITICAL AND NO ACTION IS TO BE TAKEN.	
25X1A 15 NOT CONSIDERED ORITISAL THE STATE OF THE STATE O	
DO-6 RIVETS AND TOOLING REQUIRED TO ACCOMPLISH JOB. THIS RING	
GEGEMENT WAS PREVIOUSLY CHANGED AT ON ANOTHER ARTICLE	25X1
OUE TO OVER TEMP. THE TOTAL JOB TOOK 2 MEN 8 HOURS.	
THE DECISION TO REPLACE RING SEGEMENT INVOLVES CONSIDERATION	
OF TIME INVOLVED IN RE-WORK AGAINST THE RISK OF CONTINUING USE	
OF A STRUCTURAL PART WITH APPARENT STRENGTH REDUCTION DUE TO	
HEATING EFFECTS. PARTS REMOVED SHOULD BE RETURNED	25X1
FOR MORE DETAILED AND ACCURATE STRUCTURAL ANALYSIS.	
WOULD LIKE TO BE CERTAIN THAT SPECIAL HEAT SHIELD AROUND AFT	
ENGINE MOUNTING IS INSTALLED AND ALSO UPPER ACCESS PLATE ON	
FUSELAGE IS A SOLID PLATE, NOT REPEAT NOT LOVERED.	
YOU WILL BE ADVISED SHIPPING INFORMATION ASAP.	
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IN: 12515

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TOR: 14/1657 Z MAR 66 PJF

SECRET 140656Z

PRIDRITY INFO CITE

25X1/

NO NITE ACTION

IDEALIST MAINT-LOGS

SUBJ: ENGINE S10399 INSTL ART 384

AFTER FINDING THE AFT ENGINE SUPPORT TING SEGMENT OVER TEMPED, WE LOOKED INTO THE POSSIBILITY OF EXCESS ENGINE HEAT LEAK. THE FOLLOWING WAS FOUND.

- I. THE TOP FURWARD BLANKET OF THE TAIL PIPE WAS REPLACED DUE TO EXCESSIVE HEAT DAMAGE.
- 2. THE EXHAUST TURBINE CASE HEAT SHIELD WAS FOUND TO BE CONTRACTED WITH DISTORTION AROUND ITS CINRCUMFERENCE AND RIDING TURBINE CASE STRUTTS. THE MISALIGNMENT AT THE TAIL PIPE ADAPTER MATING JOINT IS .15 INCH AT 12 O'CLOCK, .50 INCH AT ONE O'CLOCK, .30 INCH AT 3 O'CLOCK .48 INCH AT & O'CLOCK, .34 INCH AT 7:38 O'CLOCK,
- .48 INCH AT 9 O'CLOCK AND .34 INCH AT THE 12 O'CLOCK POSITION. TOTAL TIME ON ENGINE, 663.7 HRS.
- 3. A REVIEW OF THE HISTORICAL RECORD ON THE ENGINE (DD829) REVEALED INAT THIS ENGINE WAS WRITTEN UP AT 581.4 HRS FOR THIS SAME DISCREPANCY, HOWEVER THE MAGNITUDE OF DISPLACEMENT

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- was less by approximately .25 of an inch on the entire circumperence.
 - 4. DUE TO THE OVERTEMP OF THE ENGINE MOUNT SUPPORT, THE PAST HISTORY ON THE HEAT SHIELD AND THE APPARENT PROGRESSION OF DECREASE INHEAT SHIELD CIRCUMFERENCE, WE ARE CHANGINE THE EMBINE ON ART 364.
- 5. IN ADDITION, WE UNDERSTAND THAT THE COMPLETION OF

 5/2 991 WILL AID IN COOLING IN THIS AREA. 5/3 KIT 991

 FOR ART 384 WAS INSTALLED ON ART 383. PLEASE SEND THIS

 5/3 SO AS TO ARRIVE AT NLE 19 MARCH.

 25X1A

END OF MSG

25X1A S E C R E T 131243Z 25X1A CITE IMMEDIATE TINFO

25X1A

IDEALIST MAINT-LOGS

Sudd: ARTICLE 384 INSPECTION 25X1A ATTN:

PAINT DISCOLORATION AND BARCOL READING INDICATE HIGH TEMPERATURES EXPERIENCED AT AFT ENGINE MOUNT AND SPEED BRAKE WELLE.

BARCOL READINGS AS LOW AS 84 TAKEN ON REAR ENGINE MOUNT SUPPORT RING AND UPPER, FOREWARD CORNER OF R. H. SPEED BRAKE WELL.

PLEASE ADVISE HOW ABOVE READINGS COMPARE WITH DATA PREVIOUSLY TAKEN ON OTHER ARTICLES. ASAP.

END OF MSG

IN 10528

TOR 14/1712Z MAR 66 JAI

25X1A S E C R E T 148118Z

PRIORITY INFO CITE 25X1A

25X1

IDEALIST MAINT-LOGS

SUBJ: AIRFRAME INTEGRETY INSP FINAL REPORT ART 383

REF: (IN 10619)

25X1A 1. THE FOLLOWING IS A COMPREHENSIVE REPORT OF ALL DISCREPANCIES

FOUND BY LAC TEAM AS A RESULT OF THE VISUAL, DYE PENATRANT,

- X-RAY AND HARDNESS TESTS PERFORMED ON SUSPECT AREAS. IT IS
- FELT THAT NONE OF THESE DISCREPANCIES FOUND WERE OF MAJOR CONSEQUENCE.
- A. L AND R WING LOWER SURFACE FROM ROOT RIB OUTBOARD
 APPROX 24 INCHES. SCRATCHES VARYING FROM 1/8 INCH TO 9 INCHES
 - LONG AND UP TO .810 DEEP IN RANDOM DIRECTIONS WERE FOUND ON
- BOTH WINGS. APPROX 20SCRATCHES ON LEFT WING AND 30 ON RIGHT.
 - THE SCRATCHES WERE WORKED WITH 400 PAPER AND CLEANED UP ACCEPTABLY.
 - 3. L AND R WING LOWER SURFACE AT FILLET EDGE. A CORD
- WISE GROOVE FROM THE LEADING EDGE TO THE FLAP HING LINE
 - HAS BEEN WORN IN THE WING SKIN BY THE EDGE OF THE WING FILLET.
- THIS GROOVE AVERAGING .015 WIDE AND VARYING FROM 0 TO APPROX .007
- DEEP HAS BEEN SMOOTHED WITH 400 PAPER. THE CORNER OF THE
- FILLET EDGE HAS BEEN SMOOTHED AND ROUNDED TO MINIMIZE FUTURE

WEAR.

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IN 13528 CITE

- C. L AND R WING LOWER SURFACE AT W.S. 68 AND W.S. 198 ACCESS PLATES. CRACKED PAINT AT THE RIVET HEADS LOCATED AT THE INBOARD AND OUTBOARD ENDS OF EACH OF THE FOUR ACCESS PLATE CUT-OUTS INDICATES "RIVET WORKING". DYE CHECK AND X-RAY OF THE FOUR ACCESS PLATE AREAS REVELS NO ABNORMAL CONDITIONS. RIVETS ARE NOT TIPPED OR CUPPED.
- D. L AND R WING LOVER SURFACE AT 15 PER CENT (SPAN WISE SKIN SPLICE) FROM W.S. 178 OUTSOARD APPROX 4 FEET. CRACKED PAINT AND SEEPING FUEL AT RIVET HEADS, PARTICULARLY AT ROW IN FRONT SKIN. RIVETS SHOW NO EVIDENCE OF TIPPING OR CUPPING.
- E. FUSELAGE SKIN TO MAIN FRAME RIVETS. EVIDENCE OF RIVETS WORKING ABOVE AND PARTICULARLY BELOW THE WING. RIVETS ARE NOT TIPPED WITH ONLY A VERY FEW SHOWING EVIDENCE OF SLIGHT CUPPING.
- F. FUJELAGE MAIN FRAME SEGMENTS BETWEEN L AND R LOWER LONGERONS. SCRATCHES AND GOUGES UP TO .815 DEEP WERE FOUND ON EACH MAIN FRAME SEGMENT AT AN AVERAGE OF 3 PLACES PER SEGMENT. THESE SCRATCHES AND GOUGES HAVE ALL BEEN BLENDED AND SMOOTHED TO PREVENT STRESS CONCENTRATIONS.
- G. LOVER LONGERON AFT OF ENGINE ACCESS DOORS. SIX
 GOUGES, PRIMARILY ON THE EDGES OF THE LONGERON SECTION
 AND SPLICE GUSSETT WERE FOUND. THESE WERE ALL SMOOTHED AND
 BLENDED.
- 2. WE SHOULD COMPLETE LAC TEAM INSPECTION OF ART 384 TODAY.

 ONE MAJOR SUSPECT AREA, SEE REF. WILL PROVIDE COMPREHENSIVE
 REPORT UPON COMPLETION.

END OF KSG

IN 12620 Approved For Release 2002/06/18 CIA-RDP74B00447R000100010071-3